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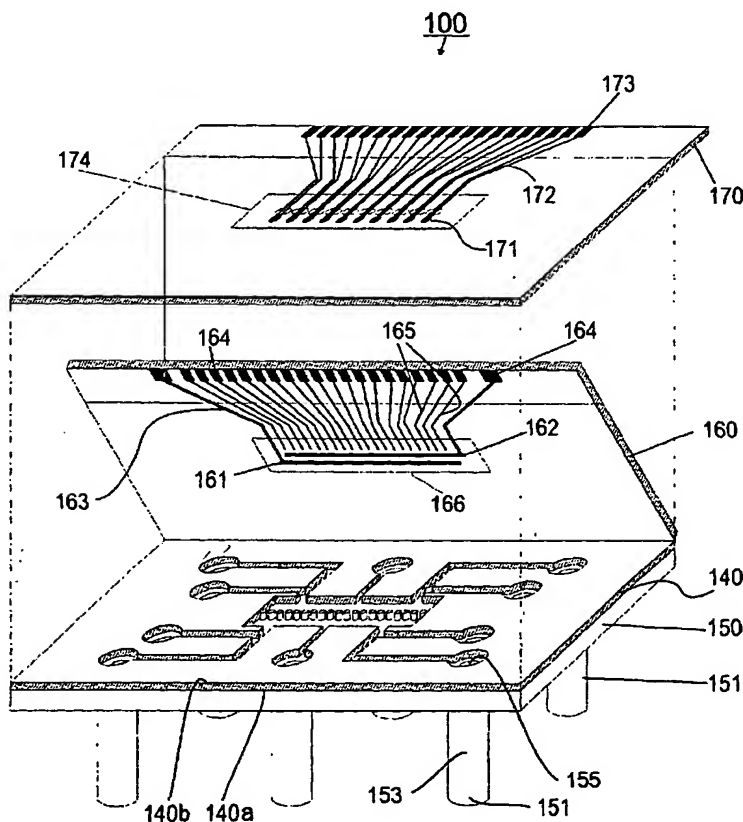
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[Continued on next page]

(54) Title: BIOREACTORS WITH MULTIPLE CHAMBERS



(57) Abstract: A bioreactor for cultivating living cells in a liquid medium. In one embodiment of the present invention, the bioreactor has a first substrate (140) having a first surface (140a) and an opposite second surface (140b), defining a chamber (101) therebetween for receiving cells and the liquid medium. The bioreactor further has a barrier (104) dividing the chamber (101) into a first subchamber (102) and a second subchamber (103), wherein the barrier (104) has a porosity to allow the first subchamber (102) and the second subchamber (103) in fluid communication and allow at least one predetermined type of cells to permeate between the first subchamber (102) and the second subchamber (103) in fluid communication and allow at least one predetermined type of cells to permeate between the first subchamber (102) and the second subchamber (103).

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12M 1/34, 1/12

US CL : 435/288.5, 288.6, 288.7, 297.2, 297.5

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/288.5, 288.6, 288.7, 297.2, 297.5

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,636,358 A (WILDING et al.) 03 June 1997, see description of figures 1,3,7; col. 8, lines 27-67.	1-4,6-17
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A		5,18-65
X	US 2002/0058329 A1 (SINGH et al.) 16 May 2002, see description of figures 1-3	1-4,6-9,14-16
X,P	US 6,440,645 B1 (YON-HIN et al.) 27 August 2002, see description of figures 2-8.	1-4,6-9,14-16



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document member of the same patent family

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